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From: Chief of Naval Operations (N889H)
To: Commander, Naval Air Systems Command (PMA2053E3)

Subj: APPROVAL OF PROPOSED NAVY TRAINING SYSTEMS PLAN (NTSP) FOR THE CABLE HARNESS REPAIR OR REMANUFACTURING EQUIVALENCE PROGRAM (CHROME), N88-NTSP-A-50-8512C/A

(a) COMNAVAIRSYSCOM ltr 1500 Ser PMA2053E3/0500008 of 15 May 00

(1) NTSP dated May 2000

1. In reply to reference (a), subject NTSP has been reviewed and is approved for fleet distribution. The NTSP will be distributed via the OPNAV N889H (Naval Aviation Technical Training) web site (http://www.avtechtra.navy.mil). If your activity is unable to access the OPNAV web site and download the subject NTSP for review, contact ATCS Morris at DSN 757-9173, Comm: (301) 757-9173 for assistance.

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NAVY TRAINING SYSTEM PLAN

FOR THE

CABLE HARNESS REPAIR OR

MANUFACTURING EQUIVALENCE PROGRAM

N88-NTSP-A-50-8512B/A

OCTOBER 2000

CABLE HARNESS REPAIR OR MANUFACTURING EQUIVALENCE PROGRAM

EXECUTIVE SUMMARY

As a result of a 1986 Government Accounting Office Investigation citing wiring problems as the leading consumer of aircraft unscheduled maintenance man-hours, intermediate level Cable and Connector Repair Shop (Work Center 69C) was established. The investigation concluded that the absence of a repair and manufacturing capability for aircraft wiring and cables contributed significantly to Non-Mission Capable and Partial Mission Capable rates. In September 1996, Chief of Naval Operations (N881) identified the CHROME equipment as an APN-7 approved requirement. All CHROME equipment is a Commercial Off-The-Shelf acquisition. The CHROME Program separates equipment into three groups. Group 0 consists of the A/U24T-1 (V) Wire Test Set, A/E32M-38 Wiring Systems Repair Tool Set, A/E 32M-37 Wiring Systems Repair Tool Set (shore sites only), and A/E32M-58 Wiring Systems Repair Tool Set (Marine Corps only). Group I consists of two pneumatic wire crimpers, a pneumatic wire stripper, labeling machine, instant connector kit, air compressor for the Marine Corps, and a six volume set of connector encyclopedias. Group II includes a wire braiding machine and wire processor.

Group 0 equipment entered acquisition Phase III (Production, Deployment, and Operational Support) in August 1995 with a Material Support Date of September 1997. Group I equipment passed Support Equipment Decision (SED) III in June 1997, and was delivered to fleet activities in July 1997. Group II equipment is expected to reach SED III in September 2001, with an estimated Initial Operating Capability of March 2002. Through the use of Groups 0 and I equipment, authorized Intermediate Maintenance Activities (IMA) will test wiring assemblies for pin-to-pin continuity, insulation breakdown, and overall wiring system performance. After fault isolation, the IMA will repair wiring harness assemblies and return them to a Ready For Issue (RFI) status. If repair is uneconomical or unfeasible, the IMA will manufacture a new assembly.

Intermediate level maintenance is performed by Navy Aviation Electrician's Mate (AE) and Aviation Electronics Technician (AT) personnel, and Marine Corps personnel with Military Occupational Specialty (MOS) 6423, Aviation Electronic Micro-Miniature/Instrument and Cable Repair Technicians. All USMC MOS 6423 personnel receive CHROME training via USMC Miniature Electronics/Instrument/Cable Repair Intermediate Maintenance Track M-102-6423. Navy AE and AT personnel may receive CHROME training via Aircraft Electrical Interface Devices Intermediate Maintenance course C-602-3023 on an as required basis. Due to the simplicity of CHROME, no additional maintenance manpower is required. CHROME follow-on training is provided by Maintenance Training Unit (MTU) 1037, Naval Air Maintenance Training Unit (NAMTRAU) Jacksonville, Florida, and MTU 1067, NAMTRAU North Island, California.

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LIST OF ACRONYMS

ACC	Aircraft Controlling Custodian
AE	Aviation Electrician's Mate
AEID	Aircraft Electrical Interface Device
AIMD	Aircraft Intermediate Maintenance Department
ALSP	Acquisition Logistics Support Plan
AMTCS	Aviation Maintenance Training Continuum System
AOB	Average Onboard
AT	Aviation Electronics Technician
CBT	Computer-Based Training
CHROME	Cable Harness Repair Or Manufacturing Equivalence
CIN	Course Identification Number
CINCLANTFLT	Commander in Chief, United States Atlantic Fleet
CINCPACFLT	Commander in Chief, United States Pacific Fleet
CMC	Commandant of the Marine Corps
CNATRA	Chief of Naval Air Training
CNET	Chief of Naval Education and Training
CNO	Chief of Naval Operations
COMNAVAIRESFOR	Commander, Naval Air Reserve Force
COMNAVRESFOR	Commander, Naval Reserve Force
DT	Developmental Test
FY	Fiscal Year
GPETE	General Purpose Electronic Test Equipment
GPTE	General Purpose Test Equipment
IMA	Intermediate Maintenance Activity
IOC	Initial Operating Capability
IPB	Illustrated Parts Breakdown
MAG	Marine Air Group
MALS	Marine Aviation Logistics Squadron
MATMEP	Marine Training Management and Evaluation Program
MOS	Military Occupational Specialty
MSD	Material Support Date
MTIP	Maintenance Training Improvement Program

CABLE HARNESS REPAIR OR MANUFACTURING EQUIVALENCE PROGRAM

LIST OF ACRONYMS

MTU	Maintenance Training Unit
NA	Not Applicable
NAMP	Naval Aviation Maintenance Program
NAMTRAU	Naval Air Maintenance Training Unit
NAS	Naval Air Station
NATEC	Naval Air Technical Data and Engineering Service Command
NAVAIRSYSCOM	Naval Air Systems Command
NAVICP	Naval Aviation Inventory Control Point
NAWC	Naval Air Warfare Center
NAWCAD	Naval Air Warfare Center Aircraft Division
NAWCADLKE	Naval Air Warfare Center Aircraft Division Lakehurst
NSD	Navy Support Date
NTSP	Navy Training System Plan
OPNAV	Office of the Chief of Naval Operations
OPNAVINST	Office of the Chief of Naval Operations Instructions
OPO	OPNAV Principal Official
OT	Operational Test
PMA	Program Manager, Air
PSICP	Program Support Inventory Control Point
RAIMD	Reserve Aircraft Intermediate Maintenance Department
RFT	Ready For Training
SED	Support Equipment Decision
SM&R	Source, Maintenance, and Recoverability
SPETE	Special Purpose Electronic Test Equipment
SPTE	Special Purpose Test Equipment
ST	Special Tools
SU	Switching Unit
TBD	To Be Determined
TCU	Test Control Unit
TD	Training Device
TECHEVAL	Technical Evaluation
TFS	Total Force Structure

CABLE HARNESS REPAIR OR MANUFACTURING EQUIVALENCE PROGRAM

LIST OF ACRONYMS

TTE	Technical Training Equipment
TYCOM	Type Commander
ULSS	Users Logistic Support Summary
UUT	Unit Under Test
WTS	Wire Test Set

CABLE HARNESS REPAIR OR MANUFACTURING EQUIVALENCE PROGRAM

PREFACE

This Approved Navy Training System Plan (NTSP) for the Cable Harness Repair Or Manufacturing Equivalence (CHROME) Program has been prepared to update the Draft Navy Training Plan, A-50-8512B/D, dated January 2000. This NTSP complies with guidelines set forth in the Navy Training Requirements Documentation Manual and reflects the latest information available. Specifically, this NTSP reflects the following changes to the CHROME program:

- Updates the list of Manpower, Personnel, and Training Principals
- Removes Navy manpower billet requirements (refer to Part I, paragraph H.3. Manning Concept)
- Incorporates revisions in intermediate maintenance training
- Updates onboard (in-service) training to reflect current program status
- Updates logistics support information to include addition of new equipment
- Updates MPT milestones
- Updates points of contact listing

PART I - TECHNICAL PROGRAM DATA

A. NOMENCLATURE-TITLE-PROGRAM

1. Nomenclature-Title-Acronym. Cable Harness Repair Or Manufacturing Equivalence (CHROME)

2. Program Element. 84771X

B. SECURITY CLASSIFICATION

1. System Characteristics ..... Unclassified
2. Capabilities ..... Unclassified
3. Functions..... Unclassified

C. MANPOWER, PERSONNEL, AND TRAINING PRINCIPALS

OPNAV Principal Official (OPO) Program Sponsor..... CNO (N881)

OPO Resource Sponsor ..... CNO (N889H)

Marine Corps Program Sponsor..... CMC (ASL)

Developing Agency..... NAVAIRSYSCOM (PMA260)

Training Agency ..... CINCLANTFLT
CINCPACFLT
CNET
COMNAVRESFOR

Training Support Agency..... NAVAIRSYSCOM (PMA205)
COMNAVAIRESFOR

Manpower and Personnel Mission Sponsor ..... CNO (N12)
NAVPERSCOM (PERS-40, PERS-404)

Director of Naval Training..... CNO (N7)

Marine Corps Force Structure.....MCCDC (C53)

D. SYSTEM DESCRIPTION

1. Operational Uses. The purpose of the CHROME Program is to establish an intermediate level of repair or manufacture of aircraft electrical cables and wiring assemblies. All CHROME equipment is obtained through Commercial Off-The-Shelf acquisitions. The CHROME Program separates equipment into three groups as follows.

Group 0:

- A/U24T-1 (V) Wire Test Set (WTS)
- A/E32M-38 Wiring Systems Repair Tool Set
- A/E 32M-37 Wiring Systems Repair Tool Set (shore sites only)
- A/E32M-58 Wiring Systems Repair Tool Set (Marine Corps only)

Group I

- Pneumatic wire stripper
- Pneumatic wire crimpers - two types
- Labeling machine
- Instant connector kit
- Air compressor (Marine Corps only)
- Six volume set of encyclopedias of connectors

Group II

- Wire braiding machines - two types
- Wire processor

2. Foreign Military Sales. Not Applicable (NA)

E. DEVELOPMENTAL TEST AND OPERATIONAL TEST. Developmental Test (DT) was successfully completed in August 1988 for Group 0 equipment at the Naval Air Warfare Center, Aircraft Division (NAWCAD) Indianapolis. Operational Test (OT) and Technical Evaluation (TECHEVAL) was not conducted for Group 0 equipment.

OT was successfully conducted by NAWCAD at Patuxent River, Maryland, in May 1994 for Group I equipment. DT and TECHEVAL was not conducted for Group I equipment.

Group II equipment is scheduled for TECHEVAL in July 2001 at NAWCAD Lakehurst (NAWCADLKE), New Jersey. DT and OT are not scheduled for Group II equipment.

F. AIRCRAFT AND/OR EQUIPMENT/SYSTEM/SUBSYSTEM REPLACED. No weapon system, equipment, or program is being replaced. The CHROME Program was established to increase the repair and manufacture capability of faulty cables and wiring harness assemblies for support equipment and aircraft. Previously, most aircraft cables were Source, Maintenance, and Recoverability (SM&R) coded as consumable or depot only repairable items,

and when determined to be faulty, were discarded by Navy and Marine Corps organizational level maintenance activities. The absence of an intermediate level maintenance repair and manufacturing capability for aircraft wiring and cable assemblies contributed significantly to unacceptable Non Mission Capable and Partial Mission Capable rates.

G. DESCRIPTION OF NEW DEVELOPMENT

1. Functional Description

a. Group 0. The A/U24T-1 (V) WTS performs continuity and insulation testing, and aids in manufacture of wire harness assemblies. The WTS is portable, computer-controlled, and consists of two major components, the Test Control Unit (TCU) TTU-543/U24T-1 (V), and from one to four Switching Units (SU) SWU-79U24T-1 (V). The WTS interfaces with the Unit Under Test (UUT) through adapters and buffer cables to perform test and diagnostic routines. Utilizing one SU, the test set provides 500 test points on the UUT. Utilizing four SUs, the test set provides 2,000 test points to measure continuity, resistance, and insulation breakdown between two UUT test points. The Wiring Systems Repair Tool Set contains common tools, special tools, and accessories used for wiring harness repair or manufacture.

b. Group I

(1) Pneumatic Wire Stripper. The Pneumatic Wire Stripper is a hand-held device that uses compressed air to strip the insulation from the wire.

(2) Pneumatic Wire Crimper (Type I). The Pneumatic Wire Crimper (Type I) is a hand-held device that uses compressed air to crimp contacts to small gauge wires.

(3) Pneumatic Wire Crimper (Type II). The Pneumatic Wire Crimper (Type II) is a hand-held device that uses compressed air to crimp contacts to large gauge wires.

(4) Labeling Machine. The Labeling Machine is a device capable of printing a variety of labels used to mark cables, wires, terminal blocks, and other electronic components.

(5) Instant Connector Kit. The Instant Connector Kit is a kit used to fabricate connectors from polyethylene. This kit eliminates the procurement lead-time of connectors when a technician has an immediate need to manufacture an adapter cable for the WTS.

(6) Encyclopedia of Connectors. The Encyclopedia of Connectors is a six volume set of books containing detailed connector configuration, ordering information, lists of manufacturers, commercial and military part numbers, contacts, tools, drawings, dimensional data, and military specifications related to plating, testing, and wire.

c. Group II

(1) Braiding Machine. The Braiding Machine is an electro-mechanical device that braids cable assemblies with an external metal or cloth material to provide Electro-Magnetic Interference (EMI) shielding, additional chafe protection, and durability.

(2) Wire Processor. The Wire Processor is used for measuring, trimming, stripping, and preparing electrical wire for assembly into aircraft wiring harness assemblies.

2. Physical Description. CHROME Group 0 through Group II equipment is assigned to Work Center 69C. The physical description of each unit is as follows:

EQUIPMENT	L x W x H (INCHES)	WEIGHT (POUNDS)
GROUP 0:		
WTS A/U24T-1(V) TCU, TTU-543/U24T-1(V)	18 x 20 x 11	50
SU, SWU-79/U24T-1(V)	21x 19 x 12	47
Basic, A/E32M-38 Wiring System Repair Tool Set	33 x 46 x 60	204
Shore Supplemental A/E32M-38 Wiring System Repair Tool Set	33 x 46 x 60	204
Marine Corps, A/E32M-38 Wiring System Repair Tool Set	33 x 46 x 60	204
GROUP I:		
Pneumatic Wire Stripper	7 x 2 x 3	2
Pneumatic Wire Crimper (Type I)	8 x 2 x 2	3
Pneumatic Wire Crimper (Type II)	10 x 3 x 3	5
Labeling Machine	18 x 8 x 5	7
Instant Connector Kit	14 x 10 x 4	10
Portable Air Compressor	36 x 18 x 30	150
GROUP II:		
Wire Braiding Machine	40 x 40 x 72	700
Wire Processor	17 x 15 x 12	70

3. New Development Introduction. NA

4. Significant Interfaces. NA

5. New Features, Configurations, or Material. NA

H. CONCEPTS

1. Operational Concept. CHROME equipment is designed to be operated by qualified intermediate level maintenance personnel through use of the WTS, General Purpose Test Equipment (GPTE), and Common Support Equipment (CSE). Navy Aviation Electrician's Mates (AE) and Aviation Electronics Technicians (AT), and Marine Corps personnel with MOS 6423 will test wiring assemblies for pin-to-pin continuity, insulation breakdown, and overall wiring system performance. After fault isolation, the local Intermediate Maintenance Activity (IMA) will repair the wiring harness assemblies and return them to a Ready For Issue (RFI) status. If repair of an assembly is determined to be uneconomical or unfeasible, the technician will manufacture a new assembly using common and special tools and equipment. Special tool kits and equipment are identified in Part IV.A.2. of this NTSP.

2. Maintenance Concept. General direction and guidance regarding the maintenance concept for the CHROME Program is provided by the Naval Aviation Maintenance Program (NAMP), OPNAVINST 4790.2G. The NAMP prescribes the concept of three levels of maintenance: organizational, intermediate, and depot. Maintenance level assignment is determined by which level has the resources to effectively and economically accomplish the maintenance action, and organizational structure for collection of data to manage the NAMP.

a. Organizational. NA

b. Intermediate

(1) Preventive Maintenance

(a) Group 0. There are no special preventive maintenance tasks required for the WTS or Wiring Systems Repair Tool Sets, therefore, a Maintenance Requirement Card deck was not developed.

(b) Group I. Preventive maintenance is conducted during the pre-operational inspection and per commercially provided operational instructions.

(c) Group II. Procedures encompassing all types of Wire Braiders and Wire Processors include:

- Daily Inspection (Wire Braider and Wire Processor)
- Track Surface Lubrication (Wire Braider)
- Track Surface Cleaning (Wire Braider)
- Feed Wheel and Wire Cutting-Splicing Blade Inspection (Wire Processor)

(2) Corrective Maintenance

(a) Group 0. Corrective maintenance includes removal and replacement of defective sub-assemblies detected during automated WTS self-test operation.

After performing corrective maintenance, operators can run a self-test to verify the integrity of the WTS.

(b) Group I. There is no formal corrective maintenance for these items. The equipment is consumable and should be repaired or replaced by the IMAs, per the NAMP.

(c) Group II. Per SM&R codes, intermediate level maintenance personnel will perform repairs of the end item and sub-assemblies, as required. Corrective maintenance will consist of the following:

- Fault Locating
- Removal and Replacement of Faulty Sub-Assemblies

c. Depot. NA

d. Interim Maintenance. Technical assistance is provided by Naval Air Technical Data and Engineering Service Command (NATEC) representatives and project engineers at NAWCADLKE. The Navy Support Dates (NSDs) for CHROME equipment are as follows:

Group 0..... September 1, 1998
Group I ..... September 30, 1997
Group II ..... March 1, 2004

e. Life Cycle Maintenance Plan. NA

3. Manning Concept. All USMC MOS 6423 personnel receive CHROME training via USMC Miniature Electronics/Instrument/Cable Repair Intermediate Maintenance Track M-102-6423.

Navy AE and AT personnel *may* receive CHROME training on an as required basis via Aircraft Electrical Interface Devices Intermediate Maintenance course C-602-3023. Traditionally Navy AE and AT NEC 9526 and 9527 personnel are assigned to Work Center 69C and are responsible for cable repair. There is no NEC awarded for the satisfactory completion of Aircraft Electrical Interface Devices Intermediate Maintenance course C-602-3023. Prerequisites for this course are limited only to the AE (A1) or AT (A1) graduate. Navy AE and AT personnel assigned to shore based AIMD Work Centers 69C may attended this course at the discretion of their parent command. Navy manpower requirements for CHROME cannot be determined by NEC or billets authorized per command, but rather by the specific needs of the command at which AE and AT Work Center 69C personnel are assigned. Navy manpower requirements are not included in this document.

4. Training Concept. Follow-on training for CHROME is provided by Maintenance Training Unit (MTU) 1037, Naval Air Maintenance Training Unit (NAMTRAU) Jacksonville, Florida, and MTU 1067, NAMTRAU North Island, California.

Selected Reserve personnel may earn intermediate level maintenance qualifications by attending formal training at NAMTRAUs providing quotas, funding, for students are available to attend the training. Specific guidelines are contained in NAVPERS 18068F Volume II, Chapter IV, Navy Enlisted Classifications.

The established training concept for most aviation maintenance training divides "A" School courses into two or more segments called *Core* and *Strand*. Many organizational level "C" School courses are also divided into separate *Initial* and *Career* training courses. "A" School *Core* courses include general knowledge and skills training for the particular rating, while "A" School *Strand* courses focus on the more specialized training requirements for that rating and a specific aircraft or equipment, based on the student's fleet activity destination. *Strand* training immediately follows *Core* training and is part of the "A" School. Upon completion of *Core* and *Strand* "A" Schools, graduates going to organizational level activities attend the appropriate *Initial* "C" School for additional specific training. *Initial* "C" School training is intended for students in paygrades E-4 and below. *Career* "C" School training is provided to organizational level personnel, E-5 and above, to enhance skills and knowledge within their field. "A" School graduates going to intermediate level activities attend the appropriate intermediate level "C" School. Intermediate level "C" Schools are not separated into *Initial* and *Career* courses.

a. Initial Training. Dual and Associates developed the Aircraft Electrical Interface Devices Intermediate Level Maintenance course and provided one session of initial training at MTU 1003 NAMTRAU Oceana, Virginia, during March and April 1989. Two sessions of Group II initial training are planned in January 2002. When information on the location and length of the two initial training sessions for Group II becomes available it will be included in updates to this NTSP.

Title	**Aircraft Electrical Interface Devices Intermediate Level Maintenance Initial Training**
Description	This course provided MTU instructors and cadre maintenance personnel with the knowledge and skills necessary to teach intermediate level cable harness and wiring repair and manufacturing.
Location	MTU 1003 NAMTRAU Oceana
Length	12 days
RFT date	Completed

b. Follow-on Training. All CHROME equipment has been included in the October 1998 revision of the AEID course. Group I equipment includes common tools and does

not require in-depth technical training. Therefore, it does not significantly impact the follow-on course. Group 0 and II equipment requires in-depth technical training to enhance skills and techniques required to braid and manufacture cable harnesses, and repair wire braiding and wire processing machinery.

Title	**Aircraft Electrical Interface Devices Intermediate Level Maintenance**
CIN	C-602-3023 (Part of track M-102-6423, USMC only)
Model Manager ...	MTU 1037 NAMTRAU Jacksonville
Description	This course provides ATs and AEs with sufficient skills and knowledge of aircraft electrical interface devices to perform repair and remanufacture of aircraft cables and wiring assemblies in an IMA working environment under close supervision.
Locations..... .	MTU 1037, NAMTRAU Jacksonville MTU 1067, NAMTRAU North Island
Length	19 days
RFT date	Currently available
Skill identifier…..	NEC is NA; MOS 6423
TTE/TD	TD is NA; refer to element IV.A.1 for TTE.
Prerequisites	AE: C-602-3039, Aviation Electrician's Mate O Level Strand Class A1 AT: C-100-2017, Avionics Technician I Level Class

c. Student Profiles

SKILL IDENTIFIER	PREREQUISITE SKILL AND KNOWLEDGE REQUIREMENTS
AE	C-100-2020, Avionics Common Core Class A1 C-602-2039, Aviation Electrician's Mate O Level Strand Class A1
AT	C-100-2020, Avionics Common Core Class A1 C-100-2017, Avionics Technician I Level Class A1
MOS 6423	C-100-2020, Avionics Common Core Class A1 C-602-2039, Aviation Electrician's Mate O Level Strand Class A1

d. Training Pipelines. As a result of the Work Center 640, 650, and 690 Maintenance Training Requirements Review (MTRR) held at Naval Air Station (NAS) Norfolk, 16-20 June 1997, Chief of Naval Operations (CNO) (N889) authorized the Marine Corps to re-establish the training pipeline for M-102-6423. The following is a list of courses within this re-established pipeline:

MOS 6423, AVIATION ELECTRONIC MICRO-MINIATURE/INSTRUMENT AND CABLE REPAIR		
CIN	**TITLE**	**LENGTH**
A-100-0072	Miniature Electronics Repair	26 days
C-602-3023	Aircraft Electrical Interface Devices Intermediate Level Maintenance	19 days
C-602-3019	Sealed Instrument Repair	54 days

I. ONBOARD (IN-SERVICE) TRAINING

1. Proficiency or Other Training Organic to the New Development

a. Aviation Maintenance Training Continuum System. AMTCS will provide career path training to the Sailor or Marine from their initial service entry to the end of their military career. AMTCS is planned to be an integrated system that will satisfy the training/administrative requirements of both the individual and the organization; the benefits will be manifested in the increased effectiveness of the technicians and the increased efficiencies of the management of the training business process. By capitalizing on technological advances and integrating systems and processes where appropriate, the right amount of training can be provided at the right time, thus meeting the CNO's mandated "just-in-time" training approach.

Technology investments enabled the development of several state-of-the-art training and administrative tools: Computer-Based Training (CBT) for the technicians in the Fleet in the form of Interactive Courseware (ICW) with Computer Managed Instruction (CMI) and Computer Aided Instruction (CAI) for the schoolhouse.

Included in the AMTCS development effort is the Aviation Maintenance Training Continuum System - Software Module (ASM) which provides testing {Test and Evaluation (TEV)}, recording {Electronic Training Jacket (ETJ)}, and a Feedback system. The core functionality of these AMTCS tools are based and designed around actual maintenance related tasks the technicians perform, and the tasks are stored and maintained in a Master Task List (MTL) data bank. These tools are procured and fielded with appropriate COTS hardware and software i.e. Fleet Training Devices (FTD) - Laptops, Personal Computers (PC0; Electronic Class Rooms (ECR); Learning Resource Centers (LRC) and operating software, network software and hardware.

Upon receipt of direction from OPNAV (N889H), AMTCS is to be implemented and the new tools integrated into the daily training environment of all participating aviation activities and

supporting elements. AMTCS will serve as the standard training system for aviation maintenance training within the Navy and Marine Corps, and is planned to supersede the existing Maintenance Training Improvement Program (MTIP) and Maintenance Training Management and Evaluation Program (MATMEP) programs.

2. Personnel Qualification Standards. NA

3. Other Onboard or In-Service Training Packages. Marine Corps onboard training is based on the current series of MCO P4790.12, Individual Training Standards System and MATMEP. This program is designed to meet Marine Corps, as well as Navy OPNAVINST 4790.2 series, maintenance training requirements. It is a performance-based, standardized, level-progressive, documentable, training management and evaluation program. It identifies and prioritizes task inventories by MOS through a front-end analysis process that identifies task, skill, and knowledge requirements of each MOS. MATMEP is planned to be replaced by AMTCS.

J. LOGISTICS SUPPORT

1. Manufacturer and Contract Numbers. The following is a list of CHROME equipment, manufacturers, and contract numbers:

CONTRACT NUMBER	MANUFACTURER	ADDRESS
GROUP 0:		
N00163-93-C-0100 WTS AU24T-1(V)	CSTS Inc.	1719 Elsbrook Lane Anaheim, CA
N00163-92-C-0185 - Wiring System Repair Tool Set	Daniels Manufacturing Corporation	526 Thorpe Road Orlando, FL 32801
GROUP I:		
N68335-97-M-3647 - Pneumatic Crimp Tool (Small Wire)	Daniels Manufacturing Corporation	6400 Shafer Court Suite 350 Rosemont, IL 60018
N68335-97-M-3647 - Pneumatic Crimp Tool (Large Wire)	Daniels Manufacturing Corporation	6400 Shafer Court Suite 350 Rosemont, IL 60018
N68335-97-M-3653 - Labeling System Kit	R.S. Hughes Company	4643 South 32nd Street Phoenix, AZ 85040

CONTRACT NUMBER	MANUFACTURER	ADDRESS
N68335-97-M-3650 - Pneumatic Wire Stripper	R.S. Hughes Company	4643 South 32nd Street Phoenix, AZ 85040
N68335-97-M-3579 - Instant Connector Repair Kit	Wiring Analyzers, Inc.	P.O. Box 1416 Edmonds, WA 98020
N68335-97-M-3652 - Encyclopedia of Connectors	Edwards Publishing Company, Inc.	14129 Chadron Avenue P.O. Box 1668 Hawthorne, CA 90251

Note: Group II contract award is anticipated for January 2001.

2. Program Documentation. A Users Logistics Support Summary (ULSS) for the Group 0 WTS was developed by Naval Air Warfare Center (NAWC) Indianapolis, and approved 20 February 1996 by Program Manager, Air (PMA) 260. A ULSS and an Acquisition Logistics Support Plan (ALSP) for Group I was developed and approved by NAWCADLKE, 19 May 1994 and 11 March 1997, respectively. There is an ALSP developed for Group II, but it is on hold due to date slippage.

3. Technical Data Plan. An advanced technical manual was developed for the Group 0 WTS and was delivered with equipment. Due to the simplicity of Group I equipment, formal Naval Air Systems Command technical manual numbers will not be assigned to any Group I equipment, and a Technical Manual Contract Requirement is not required. Manufacturers provided a user's guide with each piece of equipment delivered. The Contractor will provide off-the-shelf commercial manuals for Group II equipment.

4. Test Sets, Tools, and Test Equipment. Special tools and test equipment requirements have been determined by NAWCADLKE. Test sets, tools, and test equipment for the intermediate level course are identified in element IV.A.1. of this NTSP.

5. Repair Parts

a. Group 0. The Naval Aviation Inventory Control Point (NAVICP) Mechanicsburg, Pennsylvania, will serve as the Program Support Inventory Control Point (PSICP) and provide complete post-Material Support Date (MSD) supply support for the WTS. MSD was achieved in September 1997.

b. Group I. The Group I CHROME equipment is consumable; therefore, there will be minimal supply support required. These consumables are identified in the ULSS. Detailed supplier information is provided to allow the user to order through open purchase. Provisioning was not required. MSD and Initial Operating Capability (IOC) were both achieved in July 1997.

c. Group II. NAVICP will serve as the PSICP. Spare parts will be provided based on the most practical level of repair. This level will be determined by NAWCADLKE. Full provisioning will be determined by the NAVICP based on documentation provided by NAWCADLKE. MSD is scheduled for March 2003

6. Human Systems Integration. NA

K. SCHEDULES

1. Installation and Delivery Schedules. The delivery schedule for CHROME Group 0, I, and II Equipment is as follows:

ACTIVITY	GROUP 0	GROUP I	GROUP II
AIMD Atsugi	3/95	***	TBD
AIMD Barbers Point	3/95		
AIMD Brunswick	12/94		
AIMD China Lake	3/95	9/97	
AIMD Corpus Christi	3/95	9/97	
AIMD Diego Garcia	3/95		
AIMD Fallon	3/95		
AIMD Jacksonville	12/94	9/97	TBD
AIMD Keflavik	1/95		
AIMD Lemoore	3/95	***	
AIMD Mayport	1/95		
AIMD Misawa	3/95		
AIMD Norfolk	12/94	9/97	
AIMD North Island	3/95	9/97	TBD
AIMD Oceana	10/94	9/97	TBD
AIMD Rota	12/94		
AIMD Sigonella	12/94	9/97	TBD
AIMD Whidbey Island	3/95	9/97	TBD
CV 62 USS Independence	3/95	9/97	
CV 63 USS Kitty Hawk	3/95	9/97	

ACTIVITY	GROUP 0	GROUP I	GROUP II
CV 64 USS Constellation	3/95	9/97	
CV 67 USS John F. Kennedy	1/95	9/97	
CVN 65 USS Enterprise	12/94	9/97	
CVN 68 USS Nimitz	3/95	9/97	
CVN 69 USS Dwight D. Eisenhower	10/94		
CVN 70 USS Carl Vinson	3/95	9/97	
CVN 71 USS Theodore Roosevelt	10/94	9/97	
CVN 72 USS Abraham Lincoln	3/95	9/97	
CVN 73 USS George Washington	12/94	9/97	
RAIMD Atlanta	10/94	9/97	TBD
RAIMD Fort Worth	10/94	9/97	
RAIMD New Orleans	10/94		
RAIMD Willow Grove	12/94	9/97	
NAWCAD Patuxent River	12/94	9/97	TBD
NAWCAD Lakehurst	10/94	9/97	TBD
MTU 1067 North Island	10/94	9/97	TBD
MTU 1037 Jacksonville	10/94	9/97	TBD
MALS-11 Miramar	3/95	9/97	TBD
MALS-12 Iwakuni	3/95	9/97	TBD
MALS-13 Yuma	3/95	9/97	TBD
MALS-14 Cherry Point	12/94	9/97	TBD
MALS-16 Miramar	3/95	9/97	TBD
MALS-26 New River	12/94	9/97	TBD
MALS-29 New River	12/94	9/97	TBD
MALS-31 Beaufort	12/94	9/97	TBD
MALS-36 Futenma	3/95	9/97	TBD
MALS-39 Camp Pendleton	3/95	9/97	TBD
MALS-41 Dallas	12/94	***	TBD

ACTIVITY	GROUP 0	GROUP I	GROUP II
MALS-49 Stewart	10/94		
MALS-42 Atlanta	12/94	***	TBD
NAWCAD China Lake		9/97	
CNATRA Corpus Christi	3/95	9/97	
AIMD Pensacola	***	9/97	TBD

*** Indicates activities that did not initially receive CHROME Groups 0 and I equipment and will require them for full capability. During the FY99 APN-7 conference Aircraft Controlling Custodian (ACC) and Type Commanders (TYCOMs) approved the acquisition of additional Group 0 and I equipment for those activities receiving CHROME Group II equipment. Empty fields in the table indicate no plans for the activities to receive that category equipment. The APN-7 conference also changed the CHROME program to ashore units only; however, at ACC/TYCOM discretion, CHROME equipment may remain onboard those sea activities already in receipt. Any changes to the above schedule will be included in future updates to this NTSP.

2. Ready For Operational Use Schedule. All CHROME Program equipment items are Ready for Operational Use upon receipt.

3. Time Required to Install at Operational Sites. None of the CHROME Program equipment items require special or non-standard installation for Navy Aircraft Intermediate Maintenance Departments (AIMDs), however Marine mobile facilities configuration ST01 is being reconfigured as WR01 to accommodate CHROME equipment at Marine Corps IMAs. Upgraded facilities will be available to meet the developed delivery schedule.

4. Foreign Military Sales and Other Source Delivery Schedule. NA

5. Training Device and Technical Training Equipment Delivery Schedule. NA

L. GOVERNMENT FURNISHED EQUIPMENT AND CONTRACTOR FURNISHED EQUIPMENT TRAINING REQUIREMENTS. NA

M. RELATED NTSPs AND OTHER APPLICABLE DOCUMENTS

DOCUMENT OR NTSP TITLE	DOCUMENT OR NTSP NUMBER	PDA CODE	STATUS
ULSS Cable Harness Repair or Manufacturing Equivalent Equipment Group I	NAWCADLKE U76097-004	NAWCADLKE	Approved May 94
ULSS A/U24T-1(V) Wire Test Set	NA	PMA260	Approved Feb 96
ALSP Cable Harness Repair or Manufacturing Equivalent Equipment Group I	176097-004	NAWCADLKE	Approved Mar 97
ALSP Cable Harness Repair or Manufacturing Equivalent Equipment Group II	76097009	PMA260	Approved Sep 97

PART II - BILLET AND PERSONNEL REQUIREMENTS

The following elements are not affected by the CHROME Program and, therefore, are not included in Part II of this NTSP:

II.A. Billet Requirements

II.A.2.b. Billets to be Deleted in Operational and Fleet Support Activities

Note: All USMC MOS 6423 personnel receive CHROME training via USMC Miniature Electronics/Instrument/Cable Repair Intermediate Maintenance Track M-102-6423. Navy AE and AT personnel may receive CHROME training on an as required basis via Aircraft Electrical Interface Devices Intermediate Maintenance course C-602-3023. Traditionally Navy AE and AT NEC 9526 and 9527 personnel are assigned to Work Center 69C and are responsible for cable repair. There is no NEC awarded for the satisfactory completion of Aircraft Electrical Interface Devices Intermediate Maintenance course C-602-3023. Prerequisites for this course are limited only to the AE (A1) or AT (A1) graduate. Navy AE and AT personnel assigned to shore based AIMD Work Centers 69C may attended this course at the discretion of their parent command. Navy manpower requirements for CHROME cannot be determined by NEC or billets authorized per command, but rather by the specific needs of the command at which AE and AT Work Center 69C personnel are assigned. Navy manpower requirements are not included in this document.

PART II - BILLET AND PERSONNEL REQUIREMENTS

II.A. BILLET REQUIREMENTS

II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE

SOURCE: Extract from Table of Manpower Requirements, TFS, MCCDC **DATE:** 2/1/00

ACTIVITY, UIC		PFYs	CFY01	FY02	FY03	FY04	FY05
OPERATIONAL ACTIVITIES - USMC							
HMM-162, MCAS New River	09167	1	0	0	0	0	0
HMM-261, MCAS New River	09167	1	0	0	0	0	0
HMM-263, MCAS New River	09167	1	0	0	0	0	0
HMM-264, MCAS New River	09167	1	0	0	0	0	0
HMM-266, MCAS New River	09167	1	0	0	0	0	0
HMM-365, MCAS New River	09167	1	0	0	0	0	0
HMT-302, MCAS New River	09132	1	0	0	0	0	0
HMX-1, MCAS Quantico	48099	1	0	0	0	0	0
VMA-223, MCAS Cherry Point	57080	1	0	0	0	0	0
VMA-231, MCAS Cherry Point	57080	1	0	0	0	0	0
VMA-542, MCAS Cherry Point	57080	1	0	0	0	0	0
VMAQ-1, MCAS Cherry Point	57080	1	0	0	0	0	0
VMAQ-2, MCAS Cherry Point	57080	1	0	0	0	0	0
VMAQ-3, MCAS Cherry Point	57080	1	0	0	0	0	0
VMAQ-4, MCAS Cherry Point	57080	1	0	0	0	0	0
VMAT-203, MCAS Cherry Point	57080	1	0	0	0	0	0
VMFA(AW)-224, MCAS Beaufort	09131	1	0	0	0	0	0
VMFA(AW)-332, MCAS Beaufort	09131	1	0	0	0	0	0
VMFA(AW)-533, MCAS Beaufort	09131	1	0	0	0	0	0
VMFA-251, MCAS Beaufort	09131	1	0	0	0	0	0
VMFA-312, MCAS Beaufort	09131	1	0	0	0	0	0
VMGRT-253, MCAS Cherry Point	57080	1	0	0	0	0	0
VMM-162, MCAS New River	09167	0	0	1	0	0	0
VMM-261, MCAS New River	09167	0	0	0	0	1	0
VMM-264, MCAS New River	09167	0	1	0	0	0	0
VMM-266, MCAS New River	09167	0	0	0	1	0	0
VMMT-204 (FREST MV-22 Phasing), New River	52833	1	0	0	0	0	0
VMMT-204 (MV-22 Phasing), MCAS New River	52833	0	1	0	0	0	0
VMU-2, MCAS Cherry Point	57080	1	0	0	0	0	0
HMM(T)-164, Camp Pendleton	09408	1	0	0	0	0	0
HMM-161, MCAS Miramar	46623	1	0	0	0	0	0
HMM-163, MCAS Miramar	46623	1	0	0	0	0	0
HMM-165, MCAS Miramar	46623	1	0	0	0	0	0
HMM-166, Camp Pendleton	31053	1	0	0	0	0	0
HMM-262, MCAS Futenma	57079	1	0	0	0	0	0
HMM-265, MCAS Futenma	57079	1	0	0	0	0	0
HMM-268, Camp Pendleton	31053	1	0	0	0	0	0
HMM-364, Camp Pendleton	31053	1	0	0	0	0	0
HMT-301, Kaneohe	31947	1	0	0	0	0	0
HMT-303, Camp Pendleton	55176	1	0	0	0	0	0
MALSE, Kaneohe	31947	1	0	0	0	0	0
VAQ-129, NAS Whidbey Island	09995	1	0	0	0	0	0

II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE

SOURCE: Extract from Table of Manpower Requirements, TFS, MCCDC **DATE:** 2/1/00

ACTIVITY, UIC		PFYs	CFY01	FY02	FY03	FY04	FY05
VMA-211, MCAS Yuma	31055	1	0	0	0	0	0
VMA-214, MCAS Yuma	31055	1	0	0	0	0	0
VMA-311, MCAS Yuma	31055	1	0	0	0	0	0
VMA-513, MCAS Yuma	31055	1	0	0	0	0	0
VMFA(AW)-121, MCAS Miramar	46623	1	0	0	0	0	0
VMFA(AW)-225, MCAS Miramar	46623	1	0	0	0	0	0
VMFA(AW)-242, MCAS Miramar	46623	1	0	0	0	0	0
VMFA-314, MCAS Miramar	46623	1	0	0	0	0	0
VMFA-323, MCAS Miramar	46623	1	0	0	0	0	0
VMFAT-101, MCAS Miramar	52817	1	0	0	0	0	0
VMM-161, MCAS Miramar	46623	0	0	0	0	0	1
VMM-163, MCAS Miramar	46623	0	0	0	0	0	1
VMU-1, MCB 29 Palms	01480	1	0	0	0	0	0
TOTAL:		48	2	1	1	1	2
FLEET SUPPORT ACTIVITIES - USMC							
MAL-42 (RW), Marietta	67245	1	0	0	0	0	0
MALS-14, MCAS Cherry Point	57080	1	0	0	0	0	0
MALS-26, MCAS New River	09167	1	0	0	0	0	0
MALS-29, MCAS New River	52841	1	0	0	0	0	0
MALS-31, MCAS Beaufort	09131	1	0	0	0	0	0
MALS-49 (RW), Fort Stewart	67855	1	0	0	0	0	0
Site Support, NAS Norfolk	00188	1	0	0	0	0	0
Structure Savings from VMMT-204	52833	0	1	0	0	0	0
MALS-11, MCAS Miramar	46623	1	0	0	0	0	0
MALS-12, MCAS Iwakuni	41975	1	0	0	0	0	0
MALS-13, MCAS Yuma	31055	1	0	0	0	0	0
MALS-16, MCAS Miramar	46623	1	0	0	0	0	0
MALS-36, MCAS Futenma	57079	1	0	0	0	0	0
MALS-39, Camp Pendleton	31053	1	0	0	0	0	0
MALS-41, Fort Worth	67837	1	0	0	0	0	0
TOTAL:		14	1	0	0	0	0

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
OPERATIONAL ACTIVITIES - USMC					
HMM-162, MCAS New River, 09167					
USMC	0	1	LCPL	6423	
ACTIVITY TOTAL:	0	1			
HMM-261, MCAS New River, 09167					
USMC	0	1	LCPL	6423	
ACTIVITY TOTAL:	0	1			
HMM-263, MCAS New River, 09167					
USMC	0	1	LCPL	6423	
ACTIVITY TOTAL:	0	1			
HMM-264, MCAS New River, 09167					
USMC	0	1	LCPL	6423	
ACTIVITY TOTAL:	0	1			
HMM-266, MCAS New River, 09167					
USMC	0	1	LCPL	6423	
ACTIVITY TOTAL:	0	1			
HMM-365, MCAS New River, 09167					
USMC	0	1	LCPL	6423	
ACTIVITY TOTAL:	0	1			
HMT-302, MCAS New River, 09132					
USMC	0	1	CPL	6423	
ACTIVITY TOTAL:	0	1			
HMX-1, MCAS Quantico, 48099					
USMC	0	2	LCPL	6423	
ACTIVITY TOTAL:	0	2			
VMA-223, MCAS Cherry Point, 57080					
USMC	0	1	LCPL	6423	
ACTIVITY TOTAL:	0	1			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
VMA-231, MCAS Cherry Point, 57080					
USMC	0	1	LCPL	6423	
ACTIVITY TOTAL:	0	1			
VMA-542, MCAS Cherry Point, 57080					
USMC	0	1	LCPL	6423	
ACTIVITY TOTAL:	0	1			
VMAQ-1, MCAS Cherry Point, 57080					
USMC	0	1	CPL	6423	
	0	1	LCPL	6423	
ACTIVITY TOTAL:	0	2			
VMAQ-2, MCAS Cherry Point, 57080					
USMC	0	1	CPL	6423	
	0	1	LCPL	6423	
ACTIVITY TOTAL:	0	2			
VMAQ-3, MCAS Cherry Point, 57080					
USMC	0	1	CPL	6423	
	0	1	LCPL	6423	
ACTIVITY TOTAL:	0	2			
VMAQ-4, MCAS Cherry Point, 57080					
USMC	0	1	CPL	6423	
	0	1	LCPL	6423	
ACTIVITY TOTAL:	0	2			
VMAT-203, MCAS Cherry Point, 57080					
USMC	0	1	CPL	6423	
	0	2	LCPL	6423	
ACTIVITY TOTAL:	0	3			
VMFA(AW)-224, MCAS Beaufort, 09131					
USMC	0	1	LCPL	6423	
ACTIVITY TOTAL:	0	1			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
VMFA(AW)-332, MCAS Beaufort, 09131					
USMC	0	1	LCPL	6423	
ACTIVITY TOTAL:	0	1			
VMFA(AW)-533, MCAS Beaufort, 09131					
USMC	0	1	LCPL	6423	
ACTIVITY TOTAL:	0	1			
VMFA-251, MCAS Beaufort, 09131					
USMC	0	1	CPL	6423	
ACTIVITY TOTAL:	0	1			
VMFA-312, MCAS Beaufort, 09131					
USMC	0	1	CPL	6423	
ACTIVITY TOTAL:	0	1			
VMGRT-253, MCAS Cherry Point, 57080					
USMC	0	1	CPL	6423	
ACTIVITY TOTAL:	0	1			
VMM-162, MCAS New River, 09167, FY02 Increment					
USMC	0	1	LCPL	6423	
ACTIVITY TOTAL:	0	1			
VMM-261, MCAS New River, 09167, FY04 Increment					
USMC	0	1	LCPL	6423	
ACTIVITY TOTAL:	0	1			
VMM-264, MCAS New River, 09167, FY01 Increment					
USMC	0	1	LCPL	6423	
ACTIVITY TOTAL:	0	1			
VMM-266, MCAS New River, 09167, FY03 Increment					
USMC	0	1	LCPL	6423	
ACTIVITY TOTAL:	0	1			
VMMT-204 (FREST MV-22 Phasing), New River, 52833					
USMC	0	2	CPL	6423	
	0	1	LCPL	6423	

ACTIVITY TOTAL:	0	3			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
VMMT-204 (MV-22 Phasing), MCAS New River, 52833, FY01 Increment					
USMC	0	1	CPL	6423	
	0	2	LCPL	6423	
ACTIVITY TOTAL:	0	3			
VMU-2, MCAS Cherry Point, 57080					
USMC	0	1	CPL	6423	
ACTIVITY TOTAL:	0	1			
HMM(T)-164, Camp Pendleton, 09408					
USMC	0	1	CPL	6423	
	0	1	LCPL	6423	
ACTIVITY TOTAL:	0	2			
HMM-161, MCAS Miramar, 46623					
USMC	0	1	LCPL	6423	
ACTIVITY TOTAL:	0	1			
HMM-163, MCAS Miramar, 46623					
USMC	0	1	LCPL	6423	
ACTIVITY TOTAL:	0	1			
HMM-165, MCAS Miramar, 46623					
USMC	0	1	LCPL	6423	
ACTIVITY TOTAL:	0	1			
HMM-166, Camp Pendleton, 31053					
USMC	0	1	LCPL	6423	
ACTIVITY TOTAL:	0	1			
HMM-262, MCAS Futenma, 57079					
USMC	0	1	LCPL	6423	
ACTIVITY TOTAL:	0	1			
HMM-265, MCAS Futenma, 57079					
USMC	0	1	LCPL	6423	
ACTIVITY TOTAL:	0	1			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
HMM-268, Camp Pendleton, 31053					
USMC	0	1	LCPL	6423	
ACTIVITY TOTAL:	0	1			
HMM-364, Camp Pendleton, 31053					
USMC	0	1	LCPL	6423	
ACTIVITY TOTAL:	0	1			
HMT-301, Kaneohe, 31947					
USMC	0	1	CPL	6423	
ACTIVITY TOTAL:	0	1			
HMT-303, Camp Pendleton, 55176					
USMC	0	3	CPL	6423	
ACTIVITY TOTAL:	0	3			
MALS-46 (FW), MCAS Miramar, 67823					
AR	0	1	CPL	6423	
	0	3	LCPL	6423	
	0	2	SGT	6423	
ACTIVITY TOTAL:	0	6			
MALSE, Kaneohe, 31947					
USMC	0	2	CPL	6423	
	0	3	LCPL	6423	
ACTIVITY TOTAL:	0	5			
VAQ-129, NAS Whidbey Island, 09995					
USMC	0	1	LCPL	6423	
ACTIVITY TOTAL:	0	1			
VMA-211, MCAS Yuma, 31055					
USMC	0	1	LCPL	6423	
ACTIVITY TOTAL:	0	1			
VMA-214, MCAS Yuma, 31055					
USMC	0	1	LCPL	6423	
ACTIVITY TOTAL:	0	1			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
VMA-311, MCAS Yuma, 31055					
USMC	0	1	LCPL	6423	
ACTIVITY TOTAL:	0	1			
VMA-513, MCAS Yuma, 31055					
USMC	0	1	LCPL	6423	
ACTIVITY TOTAL:	0	1			
VMFA(AW)-121, MCAS Miramar, 46623					
USMC	0	1	LCPL	6423	
ACTIVITY TOTAL:	0	1			
VMFA(AW)-225, MCAS Miramar, 46623					
USMC	0	1	LCPL	6423	
ACTIVITY TOTAL:	0	1			
VMFA(AW)-242, MCAS Miramar, 46623					
USMC	0	1	LCPL	6423	
ACTIVITY TOTAL:	0	1			
VMFA-314, MCAS Miramar, 46623					
USMC	0	1	CPL	6423	
ACTIVITY TOTAL:	0	1			
VMFA-323, MCAS Miramar, 46623					
USMC	0	1	CPL	6423	
ACTIVITY TOTAL:	0	1			
VMFAT-101, MCAS Miramar, 52817					
USMC	0	3	LCPL	6423	
ACTIVITY TOTAL:	0	3			
VMM-161, MCAS Miramar, 46623, FY05 Increment					
USMC	0	1	LCPL	6423	
ACTIVITY TOTAL:	0	1			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
VMM-163, MCAS Miramar, 46623, FY05 Increment					
USMC	0	1	LCPL	6423	
ACTIVITY TOTAL:	0	1			
VMM-165, MCAS Miramar, 46623, FY06 Increment					
USMC	0	1	LCPL	6423	
ACTIVITY TOTAL:	0	1			
VMM-166, MCAS Miramar, 46623, FY06 Increment					
USMC	0	1	LCPL	6423	
ACTIVITY TOTAL:	0	1			
VMU-1, MCB 29 Palms, 01480					
USMC	0	1	CPL	6423	
ACTIVITY TOTAL:	0	1			
FLEET SUPPORT ACTIVITIES - USMC					
MAL-42 (RW), Marietta, 67245					
AR	0	1	CPL	6423	
	0	4	LCPL	6423	
	0	1	SGT	6423	
ACTIVITY TOTAL:	0	6			
MALS-14, MCAS Cherry Point, 57080					
USMC	0	1	CPL	6423	
	0	3	LCPL	6423	
	0	2	SGT	6423	
ACTIVITY TOTAL:	0	6			
MALS-26, MCAS New River, 09167					
USMC	0	1	CPL	6423	
	0	4	LCPL	6423	
	0	1	SGT	6423	
ACTIVITY TOTAL:	0	6			
MALS-29, MCAS New River, 52841					
USMC	0	1	CPL	6423	
	0	4	LCPL	6423	
	0	1	SGT	6423	

ACTIVITY TOTAL:	0	6			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
MALS-31, MCAS Beaufort, 09131					
USMC	0	1	CPL	6423	
	0	3	LCPL	6423	
	0	2	SGT	6423	
ACTIVITY TOTAL:	0	6			
MALS-49 (RW), Fort Stewart, 67855					
USMC	0	1	LCPL	6423	
	0	1	SGT	6423	
AR	0	1	CPL	6423	
	0	3	LCPL	6423	
ACTIVITY TOTAL:	0	6			
Site Support, NAS Norfolk, 00188					
USMC	0	1	LCPL	6423	
ACTIVITY TOTAL:	0	1			
Structure Savings from VMMT-204, 52833, FY01 Increment					
USMC	0	1	LCPL	6423	
ACTIVITY TOTAL:	0	1			
MALS-11, MCAS Miramar, 46623					
USMC	0	1	CPL	6423	
	0	3	LCPL	6423	
	0	2	SGT	6423	
ACTIVITY TOTAL:	0	6			
MALS-12, MCAS Iwakuni, 41975					
USMC	0	1	CPL	6423	
	0	3	LCPL	6423	
	0	2	SGT	6423	
ACTIVITY TOTAL:	0	6			
MALS-13, MCAS Yuma, 31055					
USMC	0	1	CPL	6423	
	0	3	LCPL	6423	
	0	2	SGT	6423	
ACTIVITY TOTAL:	0	6			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
MALS-16, MCAS Miramar, 46623					
USMC	0	1	CPL	6423	
	0	4	LCPL	6423	
	0	1	SGT	6423	
ACTIVITY TOTAL:	0	6			
MALS-36, MCAS Futenma, 57079					
USMC	0	1	CPL	6423	
	0	4	LCPL	6423	
	0	1	SGT	6423	
ACTIVITY TOTAL:	0	6			
MALS-39, Camp Pendleton, 31053					
USMC	0	1	CPL	6423	
	0	4	LCPL	6423	
	0	1	SGT	6423	
ACTIVITY TOTAL:	0	6			
MALS-41, Fort Worth, 67837					
USMC	0	2	SGT	6423	
AR	0	1	CPL	6423	
	0	3	LCPL	6423	
ACTIVITY TOTAL:	0	6			

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CFY01 OFF	CFY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL
USMC OPERATIONAL ACTIVITIES - USMC													
CPL	6423		22		1		0		0		0		0
LCPL	6423		44		3		1		1		1		2
USMC OPERATIONAL ACTIVITIES - AR													
CPL	6423		0		0		0		0		0		0
LCPL	6423		0		0		0		0		0		0
SGT	6423		0		0		0		0		0		0
USMC FLEET SUPPORT ACTIVITIES - USMC													
CPL	6423		10		0		0		0		0		0
LCPL	6423		37		1		0		0		0		0
SGT	6423		18		0		0		0		0		0
USMC FLEET SUPPORT ACTIVITIES - AR													
CPL	6423		3		0		0		0		0		0
LCPL	6423		10		0		0		0		0		0
SGT	6423		1		0		0		0		0		0
SUMMARY TOTALS:													
USMC OPERATIONAL ACTIVITIES - USMC			66		4		1		1		1		2
USMC OPERATIONAL ACTIVITIES - AR			0		0		0		0		0		0
USMC FLEET SUPPORT ACTIVITIES - USMC			65		1		0		0		0		0
USMC FLEET SUPPORT ACTIVITIES - AR			14		0		0		0		0		0
GRAND TOTALS:													
USMC - USMC			131		5		1		1		1		2
USMC - AR			14		0		0		0		0		0

II.A.2.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY DEACTIVATION SCHEDULE

SOURCE: Extract from Table of Manpower Requirements, TFS, MCCDC **DATE:** 2/1/00

ACTIVITY, UIC		**PFYs**	**CFY01**	**FY02**	**FY03**	**FY04**	**FY05**
OPERATIONAL ACTIVITIES - USMC							
HMM-162, MCAS New River	09167	0	0	1	0	0	0
HMM-261, MCAS New River	09167	0	0	0	1	0	0
HMM-264, MCAS New River	09167	0	1	0	0	0	0
HMM-266, MCAS New River	09167	0	0	0	0	1	0
VMFA-251, MCAS Beaufort	09131	0	0	0	0	1	0
VMFA-312, MCAS Beaufort	09131	0	0	0	0	1	0
VMMT-204 (FREST MV-22 Phasing)	52833	0	1	0	0	0	0
HMM-161, MCAS Miramar	46623	0	0	0	0	0	1
HMM-163, MCAS Miramar	46623	0	0	0	0	0	1
HMT-301, Kaneohe	31947	0	0	0	0	1	0
MALS-46 (FW), MCAS Miramar	67823	1	0	0	0	0	0
VMFA-314, MCAS Miramar	46623	0	0	0	0	1	0
VMFA-323, MCAS Miramar	46623	0	0	0	0	1	0
TOTAL:		1	2	1	1	6	2

II.A.2.c. TOTAL BILLETS TO BE DELETED IN OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CFY01 OFF	CFY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL
USMC OPERATIONAL ACTIVITIES - USMC													
CPL	6423		7		-2		0		0		-5		0
LCPL	6423		7		-2		-1		-1		-1		-2

SUMMARY TOTALS:

USMC OPERATIONAL ACTIVITIES - USMC													
			14		-4		-1		-1		-6		-2

GRAND TOTALS:

USMC - USMC													
			14		-4		-1		-1		-6		-2

II.A.3. TRAINING ACTIVITIES INSTRUCTOR AND SUPPORT BILLET REQUIREMENTS

DESIG RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CFY01 OFF	CFY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL
TRAINING ACTIVITY, LOCATION, UIC: Advanced Electrical Systems, San Diego, CA, UIC is Not Applicable													
INSTRUCTOR BILLETS													
USMC													
SGT	6423	0	0	0	0	0	1	0	1	0	1	0	1
TOTAL:		0	0	0	0	0	1	0	1	0	1	0	1
TRAINING ACTIVITY, LOCATION, UIC: Fleet Training Center, Norfolk, VA, 0012A													
INSTRUCTOR BILLETS													
USMC													
SGT	6423	0	0	0	0	0	1	0	1	0	1	0	1
TOTAL:		0	0	0	0	0	1	0	1	0	1	0	1
TRAINING ACTIVITY, LOCATION, UIC: MATSG, Pensacola, FL, 67412													
INSTRUCTOR BILLETS													
USMC													
SGT	6423	0	2	0	2	0	0	0	0	0	0	0	0
TOTAL:		0	2	0	2	0	0	0	0	0	0	0	0
TRAINING ACTIVITY, LOCATION, UIC: NAMTRAU 3010, NAS Oceana, VA, 66045													
INSTRUCTOR BILLETS													
USMC													
SGT	6423	0	1	0	1	0	1	0	1	0	1	0	1
TOTAL:		0	1	0	1	0	1	0	1	0	1	0	1

II.A.4. CHARGEABLE STUDENT BILLET REQUIREMENTS

ACTIVITY, LOCATION, UIC	USN/ USMC	PFYs OFF	PFYs ENL	CFY01 OFF	CFY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL
MTU 1037 NAMTRAU, NAS Jacksonville, 66051													
	USMC	1.0		1.1		1.0		1.0		1.0		1.0	
MTU 1067 NAMTRAU, NAS North Island, 66065													
	USMC	1.0		1.0		1.1		1.0		1.0		1.0	
SUMMARY TOTALS:													
	USMC	2.0		2.1		2.1		2.0		2.0		2.0	
GRAND TOTALS:													
		2.0		2.1		2.1		2.0		2.0		2.0	

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY01 +/-	CFY01 CUM	FY02 +/-	FY02 CUM	FY03 +/-	FY03 CUM	FY04 +/-	FY04 CUM	FY05 +/-	FY05 CUM
a. OFFICER - USN			Not Applicable										
b. ENLISTED - USN			Not Applicable										
c. OFFICER - USMC			Not Applicable										
d. ENLISTED - USMC													
Operational Billets USMC and AR													
CPL	6423		22	-1	21	0	21	0	21	-5	16	0	16
LCPL	6423		44	1	45	0	45	0	45	0	45	0	45
SGT	6423		0	0	0	0	0	0	0	0	0	0	0
Fleet Support Billets USMC and AR													
CPL	6423		13	0	13	0	13	0	13	0	13	0	13
LCPL	6423		47	1	48	0	48	0	48	0	48	0	48
SGT	6423		19	0	19	0	19	0	19	0	19	0	19
Staff Billets USMC and AR													
SGT	6423		3	0	3	0	3	0	3	0	3	0	3
Chargeable Student Billets USMC and AR													
			2	0	2	0	2	0	2	0	2	0	2
TOTAL USMC ENLISTED BILLETS:													
Operational			66	0	66	0	66	0	66	-5	61	0	61
Fleet Support			79	1	80	0	80	0	80	0	80	0	80
Staff			3	0	3	0	3	0	3	0	3	0	3
Chargeable Student			2	0	2	0	2	0	2	0	2	0	2

II.B. PERSONNEL REQUIREMENTS

II.B.1. ANNUAL TRAINING INPUT REQUIREMENTS

CIN, COURSE TITLE: C-602-3023, Electrical Interface Devices Intermediate Level Maintenance
COURSE LENGTH: 3.0 Weeks **TOUR LENGTH:** 36 Months
ATTRITION FACTOR: Navy: 0% USMC: 0% **BACKOUT FACTOR:** 0.06

TRAINING		ACDU/TAR	CFY01		FY02		FY03		FY04		FY05	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU 1037 NAMTRAU, NAS Jacksonville												
	USMC	USMC		17		16		16		16		15
		AR		3		3		3		3		3
MTU 1067 NAMTRAU, NAS North Island												
	USMC	USMC		18		19		18		18		17
		AR		1		1		1		1		1
		TOTAL:		39		39		38		38		36

PART III - TRAINING REQUIREMENTS

The following elements are not affected by the CHROME Program and, therefore, are not included in Part III of this NTSP:

III.A.1. Initial Training Requirements

III.A.2. Follow-on Training

III.A.2.b. Planned Courses

III.A.2.c. Unique Courses

III.A.3. Existing Training Phased Out

Note: All USMC MOS 6423 personnel receive CHROME training via USMC Miniature Electronics/Instrument/Cable Repair Intermediate Maintenance Track M-102-6423. Navy AE and AT personnel may receive CHROME training on an as required basis via Aircraft Electrical Interface Devices Intermediate Maintenance course C-602-3023. Traditionally Navy AE and AT NEC 9526 and 9527 personnel are assigned to Work Center 69C and are responsible for cable repair. There is no NEC awarded for the satisfactory completion of Aircraft Electrical Interface Devices Intermediate Maintenance course C-602-3023. Prerequisites for this course are limited only to the AE (A1) or AT (A1) graduate. Navy AE and AT personnel assigned to shore based AIMD Work Centers 69C may attended this course at the discretion of their parent command. Navy manpower requirements for CHROME cannot be determined by NEC or billets authorized per command, but rather by the specific needs of the command at which AE and AT Work Center 69C personnel are assigned. Navy manpower requirements are not included in this document.

PART III - TRAINING REQUIREMENTS

III.A. TRAINING COURSE REQUIREMENTS

III.A.2. FOLLOW-ON TRAINING

III.A.2.a. EXISTING COURSES

CIN, COURSE TITLE: C-602-3023 (of track M-102-6423), Aircraft Electrical Interface Devices Intermediate Level Maintenance
TRAINING ACTIVITY: MTU 1037 NAMTRAU
LOCATION, UIC: Jacksonville, 66051

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
20		19		19		19		18		ATIR
20		19		19		19		18		Output
1.1		1.0		1.0		1.0		1.0		AOB
1.1		1.0		1.0		1.0		1.0		Chargeable

CIN, COURSE TITLE: C-602-3023 (of track M-102-6423), Aircraft Electrical Interface Devices Intermediate Level Maintenance
TRAINING ACTIVITY: MTU 1067 NAMTRAU
LOCATION, UIC: North Island, 66065

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
19		20		19		19		18		ATIR
19		20		19		19		18		Output
1.0		1.1		1.0		1.0		1.0		AOB
1.0		1.1		1.0		1.0		1.0		Chargeable

PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS

The following elements are not affected by the Cable Harness Repair Or Manufacturing Equivalence (CHROME) Program and, therefore, are not included in part IV of this NTSP:

IV.A. Training Hardware

IV.A.2. Training Devices

IV.B. Courseware Requirements

IV.B.1. Training Services

IV.C. Facility Requirements

IV.C.1. Facility Requirements Summary (Space/Support) by Activity

IV.C.2. Facility Requirements Detailed by Activity and Course

IV.C.3. Facility Project Summary by Program

PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS

IV.A. TRAINING HARDWARE

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

TRAINING ACTIVITY: MTU 1067 NAMTRAU
LOCATION, UIC: North Island, 66065

CIN, COURSE TITLE: C-602-3023, Aircraft Electrical Interface Devices Intermediate Level Maintenance

ITEM NUMBER	EQUIPMENT	TYPE OR RANGE OF REPAIR PARTS	QTY REQUIRED	DATE REQUIRED	STATUS
ST					
001	Repair Tool Kit		1		Onboard
002	Wire Harness Construction Board		4		Onboard
003	Intermediate Level Master Tool Set		4		Onboard
004	General Purpose Tool Kit		4		Onboard
005	Pneumatic Wire Crimper (Type I)		1		Onboard
006	Pneumatic Wire Crimper (Type II)		1		Onboard
007	Pneumatic Wire Stripper		1		Onboard
008	Labeling Machine		1		Onboard
009	Instant Connector Kit		1		Onboard
GPETE					
001	Digital Multimeter		3		Onboard
SPETE					
001	Wire Marking System		1		Onboard
002	Wire Test Set		2		Onboard
003	Adapter Kits		1		Onboard

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

TRAINING ACTIVITY: MTU 1037 NAMTRAU
LOCATION, UIC: Jacksonville, 66051

CIN, COURSE TITLE: C-602-3023, Aircraft Electrical Interface Devices Intermediate Level Maintenance

ITEM NUMBER	EQUIPMENT	TYPE OR RANGE OF REPAIR PARTS	QTY REQUIRED	DATE REQUIRED	STATUS
ST					
001	Repair Tool Kit		4		Onboard
002	Wire Harness Construction Board		4		Onboard
003	Intermediate Level Master Tool Set		4		Onboard
004	General Purpose Tool Kit		4		Onboard
005	Pneumatic Wire Crimper (Type I)		1		Onboard
006	Pneumatic Wire Crimper (Type II)		1		Onboard
007	Pneumatic Wire Stripper		1		Onboard
008	Labeling Machine		1		Onboard
009	Instant Connector Kit		1		Onboard
GPETE					
001	Digital Multimeter		3		Onboard
SPETE					
001	Wire Marking System		1		Onboard
002	Wire Test Set		2		Onboard
003	Adapter Kits		1		Onboard

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

TRAINING ACTIVITY: MTU 1067 NAMTRAU
LOCATION, UIC: North Island, 66065
CIN, COURSE TITLE: C-602-3023, Aircraft Electrical Interface Devices Intermediate Level Maintenance

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Student Guides	36		Onboard
Instructor Guides	2		Onboard
Overhead Projector	1		Onboard
Projector Screen	1		Onboard
Video Reproducer	1		Onboard
Color TV Monitor	1		Onboard

TRAINING ACTIVITY: MTU 1037 NAMTRAU
LOCATION, UIC: Jacksonville, 66051
CIN, COURSE TITLE: C-602-3023, Aircraft Electrical Interface Devices Intermediate Level Maintenance

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Student Guides	36		Onboard
Instructor Guides	2		Onboard
Overhead Projector	1		Onboard
Projector Screen	1		Onboard
Video Reproducer	1		Onboard
Color TV Monitor	1		Onboard

IV.B.3 TECHNICAL MANUALS

TRAINING ACTIVITY: MTU 1067 NAMTRAU
LOCATION, UIC: North Island, 66065
CIN, COURSE TITLE: C-602-3023, Aircraft Electrical Interface Devices Intermediate Level Maintenance

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QTY REQD	DATE REQD	STATUS
Electrostatic Discharge Control Handbook for Protection of Electrical and Electronic Parts Assemblies, and Equipment (Excluding Electrically Initiated Explosive Devices) DOD-HDBK-263	Hard copy	1		Onboard
Electrostatic Discharge Control Program for Protection of Electrical and Electronic Parts Assemblies, and Equipment (Excluding Electrically Initiated Explosive Devices) DOD-STD-1686	Hard copy	2		Onboard
Technical Manual Standard Maintenance Practices, Electronic Assembly Repair NA 01-1A-23	Hard copy	8		Onboard
Installation Practices, Aircraft Electrical and Electronic Wiring NA 01-1A-505 series	Hard copy	8		Onboard
Operation and Maintenance Instruction with IPB (Organizational and Intermediate) Electronic Equipment Maintenance Group 0A8794-USM/NA 17-1-199	Hard copy	8		Onboard
The Encyclopedia of Connectors Edward's Publishing Company 14115 Chadron Avenue, P.O. Box 1668 Hawthorn, CA 90250-1668	Hard copy	6		Onboard

IV.B.3 TECHNICAL MANUALS

TRAINING ACTIVITY: MTU 1037 NAMTRAU
LOCATION, UIC: Jacksonville, 66051
CIN, COURSE TITLE: C-602-3023, Aircraft Electrical Interface Devices Intermediate Level Maintenance

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QTY REQD	DATE REQD	STATUS
Electrostatic Discharge Control Handbook for Protection of Electrical and Electronic Parts Assemblies, and Equipment (Excluding Electrically Initiated Explosive Devices) DOD-HDBK-263	Hard copy	1		Onboard
Electrostatic Discharge Control Program for Protection of Electrical and Electronic Parts Assemblies, and Equipment (Excluding Electrically Initiated Explosive Devices) DOD-STD-1686	Hard copy	2		Onboard
Technical Manual Standard Maintenance Practices, Electronic Assembly Repair NA 01-1A-23	Hard copy	8		Onboard
Installation Practices, Aircraft Electrical and Electronic Wiring NA 01-1A-505 series	Hard copy	8		Onboard
Operation and Maintenance Instruction with IPB (Organizational and Intermediate) Electronic Equipment Maintenance Group 0A8794-USM/NA 17-1-199	Hard copy	8		Onboard
The Encyclopedia of Connectors Edward's Publishing Company 14115 Chadron Avenue, P.O. Box 1668 Hawthorn, CA 90250-1668	Hard copy	6		Onboard

PART V - MPT MILESTONES

COG CODE	MPT MILESTONES	DATE	STATUS
DA	Conducted analysis of MPT requirements	Oct 86	Completed
TSA	Conducted Initial Training for CHROME 0 WTS	Oct 95	Completed
DA	Approved ULSS for Group 0 WTS	Feb 96	Completed
DA	Approved ALSP for Group I equipment	Mar 97	Completed
NAWCADLKE	Achieved SED for Group I	Jun 97	Completed
NAWCADLKE	Achieved SED I/II for Group II	Jul 97	Completed
NAVICP	Achieved MSD for CHROME Group I	Jul 97	Completed
NAWCADLKE	Achieved IOC for Group I	Jul 97	Completed
TSA	Developed curricula materials for the revised course C-602-3023A for Group 0 equipment	FY97	Completed
NAVICP	Achieved NSD for Group I	Sep 97	Completed
NAVICP	Achieved MSD for Group 0 WTS	Sep 97	Completed
TSA	Developed curricula materials for the revised course C-602-3023A for Group I and II equipment	FY98	Completed
NAVICP	Achieved NSD for Group 0	Sep 98	Completed
TA	Began Follow-on Training	Oct 98	Completed
TSA	Developed Draft NTSP (Update)	Dec 99	Completed
TSA	Developed Proposed NTSP	May 00	Completed
NAWCADLKE	Award contract for Group II	Jan 01	Pending
NAWCADLKE	Begin Technical Evaluation for Group II	Jul 01	Pending
NAWCADLKE	Achieve SED III for Group II	Sep 01	Pending
TSA	Begin Initial Training for CHROME II	Jan 02	Pending
NAWCADLKE	Establish IOC for Group II	Mar 02	Pending
NAVICP	Achieve MSD for Group II	Mar 03	Pending
NAVICP	Achieve NSD for Group II	Mar 04	Pending

PART VI - DECISION ITEMS/ACTION REQUIRED

DECISION ITEM OR ACTION REQUIRED	COMMAND ACTION	DUE DATE	STATUS
None			

PART VII - POINTS OF CONTACT

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